

CLAIMS

1. A distribution device for a system (1) for delivery of medical fluids to a patient, of the type comprising:

- a syringe body (30),
 - a distributor (32) comprising a body (32B) within which there is bounded a chamber (62) for fluid circulation,
 - a feed tube (56) for an active medical fluid, opening into the syringe body (30) and designed to be connected to a reservoir (6) for the said active fluid,
 - a tube (60) for the injection of this active fluid connected to a distal extremity (46) of the syringe body (30) and opening into the chamber (62) of the distributor,
 - a pressurised tube (64) designed to be connected to the patient through a pressurised line (12) of the system (1) and opening into the chamber (62) of the distributor, and
 - a pressure measurement tube (66) designed to be connected to a line (16) for measuring the pressure of the system (1) and opening into the chamber (62) of the distributor, this distributor (32) comprising within the fluid connection chamber (62) a slide (112) which can move in relation to the body (32B) of the device and a resilient member (120) placed between the slide (112) and fixed part (122) of the distributor body, this distributor being designed to provide an automatic connection via the said chamber between the pressurised tube (64) and only one of the injection tubes (60) and the pressure measurement tube (66) through the action of the pressure of the medical fluid and the resilient member (120)
- characterised in that the device also comprises a flush tube (68) which is separate from the other tubes (56, 60, 64, 66) of the device formed in the body (32B) of the distributor (32) and comprising a first section (68A) which is designed to be connected to a reservoir (24) for a flush medical

fluid and a second section (68B) opening directly into the chamber (62) of the distributor (32), the said flush tube (68) being fitted with a valve (70, 80) equipped with a plug (70) located between the first and second sections (68A, 68B) of the flush tube which can be moved manually between a position in which it at least partly closes the flush tube and a position in which the flush tube (68) is in free communication with the said chamber (62), the distributor (32) being designed to connect the flush tube with at least the pressurised tube (64) via the said chamber (62).

2. A device according to claim 1, characterised in that the valve (70, 80) of the flush tube (68) is supported by the body (32B) of the distributor (32).

3. A device according to claim 1 or 2, characterised in that the valve (70, 80) is mounted so as to rotate about an axis (Z-Z) orientated transversely to the flush tube (68).

4. A device according to any of the preceding claims, characterised in that the valve in the flush tube (68) comprises a plug (70) for that tube and a manual control lever (80), the plug and the handle being both connected mechanically to each other and capable of movement with respect to the body (32B) of the distributor (32).

5. A device according to claim 4, characterised in that the plug (70) comprises a sector of a cylinder (74).

6. A device according to any one of the preceding claims, characterised in that it comprises means (94, 96) for resiliently returning the valve (70, 80) into its closed position.

7. A device according to claim 6, characterised in that the return means comprise a flexible blade (94) bearing against the body (32B) of the distributor (32) and mechanically connected to the valve (70, 80) of the flush tube (68).

8. A device according to any one of the preceding claims, characterised in that the body (32B) of the distributor (32) is made of one piece with the body of the syringe (30) in a leaktight manner.

9. A device according to any one of the preceding claims, characterised in that the tube (56) feeding the first active medical fluid is bounded by the distributor (32).

10. A device according to any one of the preceding claims, characterised in that the feed tube (56) and the injection tube (60) for the active medical fluid extend in substantially parallel directions.

11. A kit for the injection of a contrast product into the human body, characterised in that it comprises:

- a distribution device (2) according to any one of the preceding claims,
- a feed line (4) for contrast product comprising a flexible conduit (8) fitted with a drip chamber (10) and designed to be connected at one extremity to a reservoir (6) for contrast fluid and at its other extremity to the feed tube (56) of the distribution device (2),
- a pressurised line (12) comprising at one extremity a coronarography catheter (15) designed to be inserted into the patient's body and designed to be connected at its other extremity the pressurised tube (64) of the distribution device (2),
- a pressure measurement line (16) incorporating a conduit (20) fitted with a pressure sensor (18) and designed to be connected to the pressure measurement tube (66) of the distribution device (2), and
- a flush line (22) comprising a flexible conduit (26) fitted with a drip chamber (28) and designed to be connected at one extremity to a reservoir (24) for a flush solution

and at its other extremity to the flush tube (68) of the distribution device (2).